LISA M. HOLLIDAY, Ph.D. - APRIL 13, 2018

IN THE UNITED STATES DISTRICT COURT

FOR THE WESTERN DISTRICT OF OKLAHOMA

SEAN SMITH and CRYSTAL SMITH,

Plaintiffs,

VS.

) No. 5:17-CV-1302D

CSAA FIRE AND CASUALTY INSURANCE COMPANY,

Defendant.



* * * * *

DEPOSITION OF LISA M. HOLLIDAY, PH.D.,

TAKEN ON BEHALF OF THE PLAINTIFFS

ON APRIL 13, 2018

IN OKLAHOMA CITY, OKLAHOMA

COMMENCING AT 9:53 A.M.

* * * * *

REPORTED BY: KORTNEY V. HOUTS, CSR

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101 Park Avenue, Suite 910
Oklahoma City, OK 73102
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Page 19 (70 - 73)

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Page 70
                                                                                                          Page 72
        LISA M. HOLLIDAY, Ph.D. - APRIL 13, 2018
                                                                    LISA M. HOLLIDAY, Ph.D. - APRIL 13, 2018
 1 loss and --
                                                            1 Rimkus?
        Α
            Oh, no, no, no. There's one template for all
                                                            2
                                                                    A
                                                                        I did do some forensic work on the school
                                                            3 buildings in Moore.
 a reports.
        Q
             Okay. So when you're writing -- so when
                                                                    0
                                                                        Was that prior to Rimkus?
 5 you're writing these reports, the template comes in,
                                                                        Prior to Rimkus.
                                                                   A
                                                            5
   and it's got some pre-generated paragraphs. Correct?
                                                                    Q
                                                                        Do you know who the plaintiff's attorney is
                                                            6
                                                            7 in that case?
                                                                    Α
        Q
             And none of these are type of loss specific?
                                                                         Yes. I worked for the plaintiff's attorney.
                                                            Я
             They are not.
                                                                         Other than your work with that, have you done
 9
                                                            9
        O
             So all of the specific causes of loss, all of
                                                           10 anything along those lines?
11 that language should be completely different?
                                                                    Α
                                                                         No. Just volunteer work after disasters.
                                                           11
             It comes in blank.
                                                                    Q
                                                                         And is that determining cause of loss?
                                                           12
             Okay. And so you've never copied and pasted
                                                                         Determining cause of failure. We'll call it
13
                                                           13
14 cause of loss specific information into your
                                                           14 cause of failure.
                                                                         Okay. And is all this relative to the 2013
                                                                    Q
                                                           15
        A I copy -- yes, I do. I don't start from
                                                           16 tornado?
16
17 scratch. I decide what I want to write, and if I've
                                                                    A
                                                                         The 2013, yes. I did work on the 2013
                                                           17
                                                           18 tornado with the National Science Foundation.
   written that before, I might copy and paste.
                                                                        What was the -- what was the type of lawsuit
19
                                                           19
                                                           20 that was involved in the one you were the expert for
             But it is each -- each report is my original
20
21 thought.
                                                           21 the plaintiff?
22
        0
             Okay. But you'll look at previous ones and
                                                           22
                                                                   A
                                                                        It was the collapse of the school buildings
                                                           23 that killed the children.
23 say --
24
        Α
             Yes. Yeah.
                                                           24
                                                                        What was your conclusion?
25
        Q
             -- that worked for us --
                                                           25
                                                                         MR. FELTY: Counsel, before we go there, it's
                                               Page 71
                                                                                                          Page 73
        LISA M. HOLLIDAY, Ph.D. - APRIL 13, 2018
                                                                    LISA M. HOLLIDAY, Ph.D. - APRIL 13, 2018
             As a quide.
                                                            1 not clear to me whether Dr. Holliday --
        Α
 1
             -- last time --
                                                                        MR. ENGEL: If she was consulting?
                                                            2
                                                                        MR. FELTY: -- was a testifying or consulting
             As a quide, as a writing quide.
             MR. FELTY: Make sure he finishes his
                                                            4 expert. Because we're not clear as to that point, we
 4
                                                            5 move for protective order. The Oklahoma Discovery Code
 5 question.
             THE WITNESS: Okay. Sorry.
                                                            6 is pretty clear about, you know, consulting expert
           (By Mr. Engel) But you'll look at previous
                                                            7 opinions are not discoverable.
 8 ones and you'll say, that worked for us last time, let
                                                                        If it turns out that she was designated as a
                                                            8
                                                            9 testifying expert, we would be willing to stipulate
 g me copy and paste into this one these paragraphs?
             MR. FELTY: Object to form.
                                                           10 that you could reopen her deposition to ask about that
10
                                                           11 point if we really felt it was necessary. But until we
           (By Mr. Engel) Correct?
11
12
             Yes. As a starting point.
                                                           12 reach a conclusion on that issue, I'd move for a
             This is something that I -- again, I have to
                                                           13 protective order and request that we address a
13
14 go backwards. I'm sorry for being out of order here.
                                                           14 different topic.
15 But prior to your part-time work with Rimkus, did you
                                                                        (By Mr. Engel) You're very fortunate.
                                                           15
                                                           16 Rimkus hires very good quality attorneys for you all.
16 do any -- did you do any forensic, you know,
17 client-based report writing like you do now?
                                                           17 He's correct.
18
             No. Some inspections. I take that back. I
                                                           18
                                                                         What was the name of the plaintiff's attorney
19 have done some inspections, residential inspections.
                                                           19 again?
20
             Were you doing that for the sale and purchase
                                                                        There was quite a few plaintiff's attorneys.
                                                           20
21 of residential real estate?
                                                                        Okay. What's the most inspections you've had
                                                           21
                                                           22 in a week? More than ten?
22
           Yes.
                                                                  A
             Okay. So other than the home inspections
                                                           23
24 type work, have you done any forensic engineering
                                                           24
                                                                        Now that you're full-time, how many are you
25 reports for clients prior to your part-time work at
                                                           25 doing?
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Page 20 (74 - 77)

7/ 1	13/2018		Page 20 (74 - 77)
	Page 74	Т	Page 76
	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018		LISA M. HOLLIDAY, Ph.D APRIL 13, 2018
1	A Four, three.	1	A I don't love heights.
2	Q Do you do the crawlspace inspections?	2	Q What's the threshold there? Is it over a
3	A Yes.	3	residential height, are you afraid to get on it, or is
4	Q Do you wear the disposable suits?	4	it like, if it's four stories, are you I'm just
5	A Yes. I have them in extra small.	5	trying to get a feel for that.
6	Q Prior to your work at Rimkus, did you do a	6	A I don't like bridges.
7	lot of commercial roofing work? Did you ever work for	7	Q Was this your first engineering report?
8	a roofer? Did you ever do	8	A Yes. Well
9	A Just the structural.	9	Q You said it was your first inspection. But
10	Q Okay. And that's design. Correct?	10	is it the first report?
11	A Design.	11	A My first report with Rimkus, I believe.
12	Q Okay. Did you ever do well, now that	12	Q Did Mr. Frase make changes to your report?
13	you're working for Rimkus, you've been on more	13	A No, he did not.
14	commercial roofs. Correct?	14	Q He didn't touch it at all?
15	A Correct.	15	A I'm not sure he ever saw it.
16	Q What about residential roofs? Prior to	16	Q So you did send it to him, but then you went
17	working at Rimkus, did you were you on a bunch of	17	ahead and submit it to your
18	residential roofs?	18	A Oh, I'm sorry. I'm sorry. Mr. Frase? I'm
19	A Just as an engineer, yes. Just as doing	19	sorry. I thought you said Tim. Can you repeat your
20	inspections, inspecting roofs.	20	question? I misunderstood.
21	Q I'm sorry. I'm not sure I'm clear on that.	21	Q Yes. Did Mr. Frase make any changes to your
22	So prior to working at Rimkus, did you do a bunch of	22	
23		23	A Editorial changes, yes.
24	A Not I would not say a lot.	24	Q Do you know what those were?
25	Q Okay. Just a few?	25	A I don't remember. A lot of changing present
		27	
	Page 75		Dogo 77
	Page 75		Page 77
1	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018		LISA M. HOLLIDAY, Ph.D APRIL 13, 2018
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Page 44 (170 - 173)

4/1	3/2018			Page 44 (170 - 173)
		Page 170		Page 172
	LISA	M. HOLLIDAY, Ph.D APRIL 13, 2018		LISA M. HOLLIDAY, Ph.D APRIL 13, 2018
1	said that	I yeah. I was very confused by that	1	Q (By Mr. Engel) Where did you see earthquake
2	question.		2	damage to a residential structure in Oklahoma?
3	Q	(By Mr. Engel) I can rephrase. I'm sorry,	3	MR. ANDREWS: Object to the form, to the
4	ma'am.		4	extent that it would if the question seeks people's
5	A	Okay.	5	personal information, we would object and instruct the
6	Q	Have you ever found that you said you've	6	witness not to answer as to that. But if the witness
7	done less	than a dozen earthquake inspections.	7	can confine her answer in such a way that doesn't
8	Correct?		8	reveal anybody's personal information, then she's free
9	A	With Rimkus. I ve seen earthquake damage all	9	to answer.
10	over the	world for tens of years now.	10	THE WITNESS: As I stated before, in Praque.
11	Q	But as far as your forensic Rimkus work, have	11	Q (By Mr. Engel) Okay. What's the size of
12	you ever	concluded that a home was structurally	12	that earthquake?
13		ed by an earthquake?	13	A It was I don't remember. It was
14	A	I haven't seen one yet.	14	getting it was bigger than a 5, less than a 6,
15	Q	Okay. Have you ever concluded that a home	15	somewhere in between there.
16	was damag	ed by an earthquake?		Q Is that a were those single-story
17	A	Is that not the same question you just asked?	16	residences?
18	Q	No, ma'am. I said structurally compromised	17	
19	the first		18	F
20	A	Oh, structurally compromised.	19	damaged. And there was also some unreinforced masonry
21	Q	Yes, ma'am.	20	commercial properties that were damaged.
22	A	And the second time was	21	Q Other than that earthquake, you haven't seen
	Q	Damaged at all.	22	any residential damage or let me strike that.
23	A		23	Other than the effects of that earthquake in
24		Damaged. I have not personally seen it, but	24	2010, you haven't seen any other earthquake damage in
25	I Maven t	been with Rimkus very long.	25	Oklahoma?
		Page 171		Page 173
		M. HOLLIDAY, Ph.D APRIL 13, 2018		LISA M. HOLLIDAY, Ph.D APRIL 13, 2018
1	Q	Just	1	MR. FELTY: Object to the form.
2	A	And we haven't	2	THE WITNESS: At myself personally, no.
3	Q	a dozen earthquake inspections?	3	I've seen reports. I've seen been to conferences.
4	A	Yeah.	4	I've seen other people's work that saw damages. But I
5	Q	And of those dozens, you've never seen	5	have not personally inspected that kind of damage yet.
6	earthquak	e damage?	6	Q (By Mr. Engel) What's the largest earthquake
7	12	MR. ANDREWS: Object to the form.	7	other than Prague that you've investigated? Do you
8		THE WITNESS: Correct.	8	think it was this one?
9	Q	(By Mr. Engel) Okay. If you did see and	9	MR. FELTY: Object to the form.
10	so now I w	ant to go into this hypothetical. If you did	10	MR. ANDREWS: Yeah. Same objection.
11	see eartho	make damage to a home and you did say, well,	11	THE WITNESS: So it depends on what you mean
12	this is ce	ertainly earthquake	12	by investigated. Studied, been a witness to
13	A	And I have seen earthquake damage to homes in	13	Q (By Mr. Engel) As a Rimkus engineer hired to
14	Oklahoma.		14	investigate and write a report for.
15	Q	But not as a Rimkus engineer?	15	A What's the okay. So as a Rimkus engineer.
16	A	But not as a Rimkus engineer.	16	So since August, what is the largest size earthquake
17	Q	If you had seen if you concluded that it	17	I don't know. I'm going to guess it's between a 5 and
18	was, in fa	ct, earthquake damage, and you saw the doors	18	a 6 because that's all that there's been in
19	were no lo	nger opening and closing, would you conclude	19	MR. FELTY: Don't guess if you don't know the
20	that that	was caused by the earthquake?		answer.
21		MR. FELTY: Object to the form.	21	THE WITNESS: I don't know the answer. I do
22		MR. ANDREWS: Object to the form.		not know the answer.
23		MR. FELTY: Incomplete hypothetical.	23	Q (By Mr. Engel) Where in that range is it
24		THE WITNESS: Yeah. I would have to see if		is there damage to structural to homes
		things are related or not structurally.		MR. FELTY: Object to the form.
25	chose two	enings are related of not structurally.	25	

Page 57 (222 - 225)

Page 222 Page 224 LISA M. HOLLIDAY, Ph.D. - APRIL 13, 2018 LISA M. HOLLIDAY, Ph.D. - APRIL 13, 2018 Generally, not the best. Sure. And when you're looking at these USDA Is that type of silty -- or silty clay common 2 maps, is it your understanding that these maps have 3 in Oklahoma? 3 disclaimers stating that they're no substitute for Let's just say that if expansive soils become 4 site-specific tests? 5 a commodity, Oklahoma is set. I believe they do have statements like that. So a lot of the land in Oklahoma is going to And that's because the soil can vary from fit this silty clay expansive soil. Right? 7 site to site, even though the overall area has one type Α Correct. g of soil. Correct? Like, if we just pulled up a map of Oklahoma Correct. 10 City and you put your finger down maybe in Heritage 10 And that's not uncommon anywhere in the 1] Hills, you would run into stuff like that? 11 world. Right? I happen to know that I have it in Heritage Correct. 12 13 Hills. And so your understanding is that -- you 13 Okay. So underneath your house is going to 14 deemed this soil to be this silty clay with this 14 15 be this silty clay soil. Is that correct? 15 plasticity based on the USDA map, but not based on a 16 I've seen it. 16 test that you did determining the type of soil? 0 Okay. And you described this as unfavorable 17 17 18 to build on. Is that correct? And because the USDA cites that these are 18 Correct. It has a high plasticity index. 19 just kind of generalizations, without a soil test, we 19 And, again, you're looking at this plasticity 20 20 don't know exactly what type of soil is under that 21 index where it says 25 to 44? 21 house, do we? Α Uh-huh. 22 22 What does that index measure? 23 Did you all discuss doing a soil --23 So plasticity index is a measure of how much We did not. 24 25 the soil expands and contracts with moisture, and -- sample? Is that something that you have 25 Page 223 Page 225 LISA M. HOLLIDAY, Ph.D. - APRIL 13, 2018 LISA M. HOLLIDAY, Ph.D. - APRIL 13, 2018 1 anything over 15 is considered expansive. 1 ever done? And is that site-specific? 0 It's generally not done on residentials. 2 3 But on commercial claims you do? So if anything, is this type of clay --No. On residential construction. In they're all going to have plasticities of that? 5 5 general, for residential construction, it's not the Right. That's the definition of a clay. 6 6 norm. Would you --7 What about in Rimkus investigations? Have Expansive clay soil. 8 8 you ever tested the soil? So it's important just knowing exactly what I have not. 9 10 type of clay you have, and then you get this plasticity Q Do you know if Rimkus would allow you to test 10 11 range. Correct? 11 the soil if you requested it? The plasticity range defines the soil --12 Α 12 Α I -- I don't see why not, if it was 13 13 necessary. Α -- the expansiveness of the soil. Do you know if -- is that a tool that you 14 So if you were to test the soil, are you 15 consider in your tool belt if you deem it necessary, is 16 looking for plasticity range, and that determines the 16 to test the soil? 17 soil, or is it reversed? I don't think it's out of the realm of 17 So, generally speaking, clays expand and 18 possibility, yeah, if it's -- if it's warranted. 19 contract, and the way that we measure how expansive or Okay. No one's ever told you, don't ever 19 20 contracting a clay is by its plasticity index. So if 20 test the soil? 21 you want to think of it as -- in layman's terms, how Right. No one's ever told me that. 21 22 sticky is the clay. A higher plasticity index would be Okay. And going forward -- well, if a home 22 23 stickier, and a lower plasticity index would be 23 is sitting on soil that's likely to shift naturally, 24 something closer to sand that's not sticky at all, 24 does that make it more likely to shift as a result of 25 sticky being a nontechnical term. 25 an earthquake?

Page 59 (230 - 233)

4/1	13/2018		Page 59 (230 - 233)
	Page 230		Page 232
	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018		LISA M. HOLLIDAY, Ph.D APRIL 13, 2018
1	Q And, of course, it was your first time	1	Q Do you ever consult rainfall maps?
2	writing a Rimkus	2	A I don't see why you would do that. I'm not
3	A Right.	3	real sure where you're going with this.
4	Q report. So was Tim giving you a little	4	Q Do you ever consult flood maps?
5	bit of guidance as to what you were going to be, you	5	A Not for earthquake damage, no. I mean, a
6	know, looking for and putting in that report?	6	flood map for maybe some other reason. But no. I've
7	A No. Steve Frase did.	7	never, except my personal experience, looked at flood
8	Q Okay. And so was there on-site you know,	8	maps.
وا	did Tim France go, you know what, get the Ziplevel and	9	Q What about the idea of moisture in the soil?
10	check all the all the elevations? Did	10	What did you do to see if there was moisture in the
111	A No. We did that together.	111	soil? Did you conduct any types of tests
12		12	A No.
13		13	Q is what I'm trying to ask.
14			A No.
15		14	Q Do you have any handwritten notes from this
	Q Okay. That's because he's been an engineer	15	on your clipboard?
16		16	A I do not.
	A Correct.	17	9
18	Q And so, of course, you're you know, you	18	Q Did Mr. Frase send you any e-mails?
19		19	A I don't I don't believe so.
20	The second secon	20	Q Underneath the home, are the support beams
21	coming in for the first time and he's kind of leading	21	two-by-four or two-by-sixes?
22	you through this?	22	A I don't know. I didn't go under there.
23	A The Rimkus way.	23	Q Two-by-eights?
24	Q Okay. Let's talk about moisture in the soil.	24	A I don't know.
25	Did you did you consult any rainfall maps when you	25	Q Does anyone at Rimkus know the size of the
	Page 231		Page 233
	Page 231 Lisa m. Holliday, ph.d april 13, 2018		Page 233
1	_	1	9
1 2	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018	1 2	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018
1 -	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018 were looking or making your conclusions?	-	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018 floor joists underneath this home?
2	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018 were looking or making your conclusions? A No.	2 3	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018 floor joists underneath this home? A Not that I'm aware of.
2	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018 were looking or making your conclusions? A No. Q Did you consult any flooding maps?	2 3 4	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018 floor joists underneath this home? A Not that I'm aware of. Q These conclusions that the home moved because
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2 3 4	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018 were looking or making your conclusions? A No. Q Did you consult any flooding maps? A No. Q Did you you didn't test the soil, though,	2 3 4 5	LISA M. HOLLIDAY, Ph.D APRIL 13, 2018 floor joists underneath this home? A Not that I'm aware of. Q These conclusions that the home moved because of differential foundation movement, is that the conclusion of all of your earthquake investigations
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